

IN THE CLAIMS:

Please amend the claims as follows:

1-17. (Canceled)

18. (Currently Amended) The ~~viral-effector-library~~ method of claim [[17]] 26, wherein there are at least 1000 heterogenous nucleic acid sequences inserted into the viral expression vectors.

19. (Currently Amended) The ~~viral-effector-library~~ method of claim [[18]] 26, wherein there are at least 10,000 heterogenous nucleic acid sequences inserted into the viral expression vectors.

20. (Currently Amended) The ~~viral-effector-library~~ method of claim [[19]] 26, wherein there are at least 35,000 heterogenous nucleic acid sequences inserted into the viral expression vectors.

21. (Currently Amended) The ~~viral-effector-library~~ method of claim [[17]] 26, wherein the viral expression vectors [[is]] are retroviral vectors.

22. (Currently Amended) The ~~viral-effector-library~~ method of claim 21, wherein the retroviral vectors [[is]] are lentiviral vectors.

23. (Currently Amended) The ~~viral-effector-library~~ method of claim [[17]] 26, wherein the effector ~~nucleic acid~~ sequences code for cDNAs, siRNAs, peptides or protein domains.

24. (Currently Amended) The ~~viral-effector-library~~ method of claim [[17]] 26, wherein the effector ~~nucleic acid~~ sequences code for siRNAs.

25. (Currently Amended) The ~~viral-effector-library~~ method of claim [[17]] 26, wherein the effector ~~nucleic acid~~ sequences code for peptides.

26. (Currently Amended) A method for making a packaged viral effector library, comprising:

cloning a defined set of nucleic acid sequences into [[a]] viral expression vectors to produce a library of effector constructs, wherein the defined set of nucleic acid sequences comprises at least 100 different effector sequences and is made by a method comprising:

synthesizing a set of nucleic acid sequences on a surface of a microarray, wherein each nucleic acid sequence has a specific sequence and is synthesized in a specific location of said surface;

detaching the set of nucleic acid sequences from the microarray; and
amplifying the detached set of nucleic acid sequences by polymerase chain reaction, thereby generating the defined set of nucleic acid sequences; and

packaging the library of effector constructs into viral particles to produce a viral effector library.

27. (Currently Amended) A method for making a viral effector library, comprising:

synthesizing a set of at least 100 different effector nucleic acid sequences on a surface of a microarray, wherein each nucleic acid sequence has a specific sequence and is synthesized in a specific location of said surface;

detaching the set of nucleic acid sequences from the microarray;

amplifying the detached set of nucleic acid sequences by polymerase chain reaction, thereby generating a defined set of nucleic acid sequences; and

cloning the defined set of nucleic acid sequences into [[a]] viral expression vectors to produce a library of effector constructs.

28. (Previously Presented) The method claim 27, further comprising packaging the library of effector constructs into viral particles to produce a viral effector library.
29. (New) The viral effector library produced by the method of claim 26.